

ABSTRACT

PHASE NOISE REDUCTION DEVICE

A device for reducing the phase noise of a signal (S_{in}), coming from a quasiperiodic source of fundamental frequency f_0 , comprises a superconducting circuit with an active line for voltage pulse transmission by transferring quanta of flux ϕ_0 . This circuit is defined so as to have a characteristic frequency f_c such that $0.3f_c$ is less than or equal to the fundamental frequency f_0 of the quasiperiodic signal (S_{in}) applied as input, and delivers, as output, a voltage pulse signal of fundamental frequency f_0 .

Figure 2